

## CLAIMS

What is claimed is:

1. A composition comprising:
  - a carrier;
  - 5 a capsaicin;
  - an encapsulation agent;
  - esters of amino acid; and
  - a light scattering element having a particle size up to 100 nm and.
  - a solvent based alcohol.

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2. The composition of claim 1, wherein the solvent based alcohol is selected from the group, benzyl alcohol, butylene glycol, propylene glycol alcohol benzoate, benzene methanol and a hydroxy toluene.

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3. A composition comprising:

- a carrier;
- a capsaicin;
- an encapsulation agent;
- esters of amino acid; and
- 20 a light scattering element having a particle size up to 100 nm and.
- An emulsifying agent.

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4. The composition of claim 4, wherein the emulsifying agent is selected from the group comprising: polysorbates, sorbitol, glycerine and corn syrup.

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5. The composition of claim 1, wherein the carrier is selected from the group comprising: aqueous carriers, oil based carriers, fat based carriers, and fatty alcohol based carriers, corn oil, edible oil, white oil, liquid petrolatum or combinations thereof.

6. The composition of claim 1, further comprising at least one histidine.
7. The composition of claim 7, wherein the at least one histidine is a histamine hydrochloride.  
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8. The composition as in claim 8 wherein said histamine hydrochloride is a dihydrochloride.
9. The composition as in claim 7, wherein said histidine is selected from the group comprising: L-histidines, histamine dihydrochloride, DL-histidine, D-histidine hydrochloride monohydrate, L-histidine hydrochloride monohydrate, L-histidine methyl ester dihydrochloride, L-histidinol dihydrochloride and combinations thereof.
10. The composition of claim 7, wherein said histidine has a weight percent between about 0.001% up to about 1.0%.  
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11. The composition of claim 11, wherein said histidine has a weight percent between about 0.025% up to 0.10%
- 20 12. The composition of claim 1, wherein said capsaicin is selected from the group: nordihydrocapsaicin, capsaicin, dihydrocapsaicin, homocapsaicin, and combinations thereof.
13. The composition as in claim 1 wherein said capsaicin is in the range of 0.0001%  
25 to 62% by weight of capsaicin.
14. The composition of claim 14 wherein said capsaicin is in the range of 0.025 to 20 wt. %.

15. The composition of claim 15, wherein said capsaicin is in the range of 0.025 to 2 wt. %.

16. The composition as in claim 16 wherein said capsaicin is in the range of 0.025% to 0.25% by weight.

17. The composition as in claim 1 wherein said encapsulation agent is selected from the group comprising: colloidal oatmeal, hydrogenated lecithin, and dipotassium glycyrrhizinate and combinations thereof.

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18. The composition of claim 1, wherein said esters of amino acids are selected from the group: menthyl and lauryl esters of amino acids and combinations thereof.

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The composition as in claim 1, wherein said esters of amino acid are between 0.10 wt. % and 1.0 wt.%.

20. The composition as in claim 1, wherein said esters of amino acid are menthyl adequate to achieve 0.1 to 16 wt. % menthol in the formulation.

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21. The composition of claim 19 wherein said ester is menthyl lauryl pidolate.

22. The composition of claim 1, wherein said light scattering element has a particle size of up to 100 microns in diameter.

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23. The composition of claim 20, wherein said light scattering element has a particle size of between about 30 microns and about 60 microns in diameter.

24. The composition of claim 1, wherein said light scattering element is selected from the group: titanium dioxide, zinc oxide, and benzophenones, methoxy cinnamate, para

amino benzoic acid, octyl dodecyl neopentanoate, aluminum stearate with titanium dioxide, aluminum oxide with titanium dioxide, and combinations thereof.

25. composition of claim 1, further comprises an additional anti-itch agent which is a member of the group: methyl sulphonyl methane, sodium bicarbonate, calamine, allantoin, kaolin, cortisone, anti-inflammatory steroids, anti-allergic steroids and derivatives or combinations thereof.

26. A patch for treating arthritis and neurological pains consisting of an elastomeric adhesive unit on which is disposed a formulation comprising:

a carrier;  
a capsaicin;  
an encapsulation agent:  
a histidine; and  
15 an ester of amino acid.

Polysorbates

27. A gel comprising:

a carrier;  
20 a capsaicin;  
an encapsulation agent;  
an ester of amino acid; and  
a light scattering element having a particle size up to 100 nm.

Benzyl alcohol

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28. The gel of claim 28, further comprising a histidine.

29. A sunscreen comprising.

a carrier;

a capsaicin;  
an encapsulation agent;  
an ester of amino acid; and  
a light scattering element having a particle size up to 100 nm.

5           Benzyl alcohol

30. The sunscreen of claim 30, further comprising histidine.

31. A cream for treating pruritis comprising:

a carrier;

a capsaicin;

10           an encapsulation agent;

an ester of amino acid; and

a light scattering element having a particle size up to 100 nm.

Benzyl alcohol

15       32. The cream of claim 32, further comprising histidine and polysorbitol.

33. A transdermal application comprising:

a carrier

a capsaicin

20       an encapsulating agent

an ester of amino acid,

a light scattering element having a particle size up to 100 nm

niacin,

histimine dichloride

25       polisorbitol

34. The composition of claim 1,further comprising aloe.

35. The composition of claim 3, further compirisng aloe.